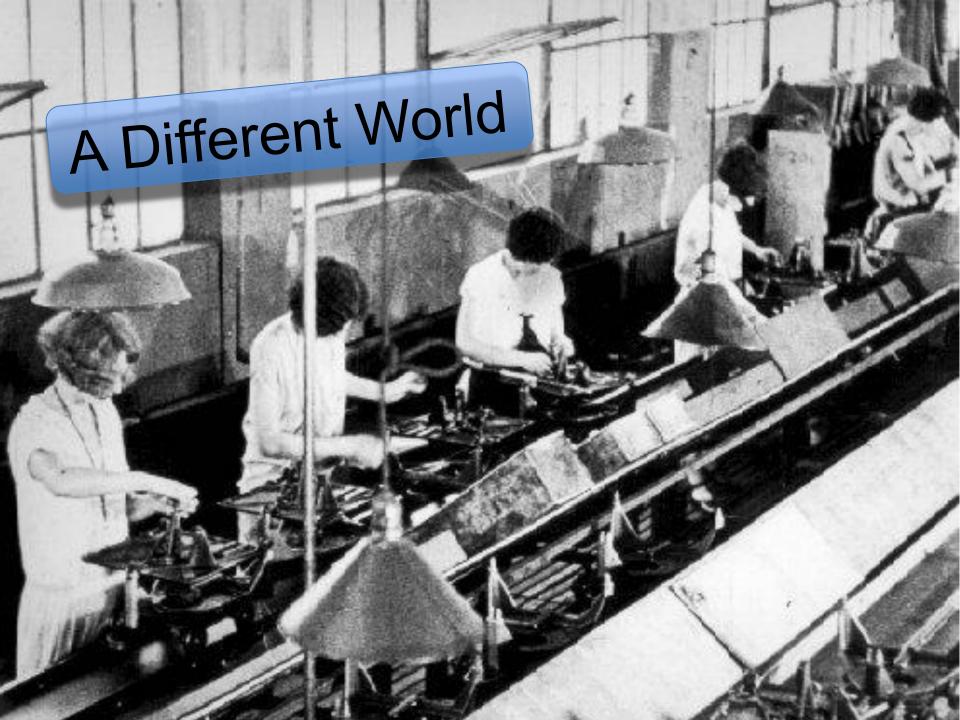
Dig into the Standards: Peeling/Unpacking the Common Core State Standards

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What's the Big Deal?

- The CCSS initiative is a "sea change" in education for teaching and learning!
- The CCSS mandates the student learning outcomes for every grade level.
- The CCSS force a common language. Your staff will begin using this language.
- Students will be tested and instructional effectiveness will be measured based on CCSS.
- Federal funding is tied to CCSS adoption, implementation, and accountability.
- English Language Arts and Mathematics CCSS are just the beginning. . .more subject area standards are being developed.

The Standards DO	The Standards DO NOT
set grade-level standards	define the intervention methods or materials
allow for the widest possible range of students to participate fully permitting appropriate accommodations	define the full range of supports appropriate for English learners and students with special needs
define general, cross-disciplinary literacy expectations	define the whole of college and career readiness
define what all students are expected to know and be able to do	define how teachers should teach
focus on what is most essential	describe all that can or should be taught
establish a baseline for advanced	define the nature of advanced

work

learners

Advances in ELA and Math

ENGLISH LANGUAGE ARTS/LITERACY

Balance of literature and informational texts; focus on text complexity

Emphasis on argument, informative / explanatory writing, and research

Literacy standards for history, social studies, science, and technical subjects

MATHEMATICS

Focus, coherence, and clarity: emphasis on key topics at each grade level and coherent progression across grades

Balance between procedural fluency and understanding of concepts and skills

Promote rigor through mathematical proficiencies that foster reasoning and understanding across discipline

Key Instructional ELA Shifts

- Building knowledge through content-rich nonfiction.
- Reading, writing, and speaking grounded in evidence from text, both literary and informational.
- Regular practice with complex text and its academic language.



Claims Driving ELA Design

Students are on-track or ready for college and careers

Students read and comprehend a range of sufficiently complex texts independently.

Students write effectively when using and/or analyzing sources.

Reading Literature Reading Informational Text Vocabulary Interpretation and Use

Written Expression

Conventions and Knowledge of Language

Students build and present knowledge through research and the integration, comparison, and synthesis of ideas.

Priorities in ELA

17				1 4				_			11.10
K	1	2	3	4	5			7	8	9-10	11-12
	Foundational Skills										
• P	 Print concepts and alphabetic principle 									A PRODUCTION NAME OF THE OWNER, WHICH	6, students who
• P	honological awa	ireness				struggle in t	nese	areas will ne	ed further si	ıpport.	
• P	 Phonics and word recognition 										
• F	• Fluency										
	Reading Literature and Informational Texts										
Focus or	Focus on teaching students reading skills to engage with rigorous texts across a broad spectrum of content; balance the types of texts students read.									students read.	
	*Percentages represent comprehensive use (teaching, learning, and student production) across a school year.										
• B	 Balance grades K-5 = 50%* literature; 50%* informational text Balance grade 6-8 = 45%* literature; 55%* informational text 							mational text			
	Balance grades 9-12 = 30%* literature; 70%* informational text										
	Literacy (Reading and Writing) in History/Social Studies, Science, and Other Technical Subjects										
Foo	Focus on teaching key ideas, details, using evidence from text to support conclusions, contextual vocabulary acquisition, and point of view.										
	Writing Standards										
Foc	Focus on teaching the processes of writing, including a balance of text types and the role of argument in History/ social studies, and science										
	*Per	centages repre	esent compreh	nensive use (te	eaching,	learning, and	stude	ent production	on) across a s	school year.	
Balance of	Balance of writing types, including writing in the content areas Balance of writing types, including writing in the content areas							areas			
• B	• By grade 4—opinion =30%; information = 35%; narrative =35% • Grade 8 – argument = 35%; information = 35%; narrative = 35%						narrative = 30%				
						• G1	ade 1	12 – argumei	nt = 40%; int	formation = 40%	s; narrative = 20%
	Speaking & Listening Standards										
	Focus on teaching use of rhetorical and critical thinking in speaking, listening, and collaborative study and work										
				•		prehension a					
	Presentation of knowledge and ideas										
	Evaluate speaker's point of view										
Language Standards											

Focus on teaching conventions of standard English, knowledge of language in different contexts, and vocabulary acquisition.

Implications for ELA Instruction

Shift focus from literacy instruction to center on careful examination of text

- Text selection: complexity, genre, and quality
- Task selection: rigorous tasks

Source: CARRIE HEATH PHILLIPS, COUNCIL OF CHIEF STATE SCHOOL OFFICERS (CCSSO)



Key Instructional Math Shifts

- Focus: Focus on less concepts but with deeper understanding
- Coherence: Think across grades, and link to major topics
- Rigor: In major topics, pursue conceptual understanding, procedural skill and fluency, and application

Traditional U.S. Approach

	K ————————————————————————————————————
Number and	
Operations	
Measurement	
and Geometry	
Algebra and	
Functions	
Statistics and	
Probability	

Claims Driving Math Design

Students are on-track or ready for college and careers

Sub-Claim A: Students
solve problems
involving the major
content for their grade
level with connections to
practices

Sub-Claim B: Students
solve problems
involving the additional
and supporting content
for their grade level with
connections to practices

Sub-Claim C: Students
express mathematical
reasoning by
constructing mathematical
arguments and critiques

Sub-Claim D: Students solve real world problems engaging particularly in the modeling practice

Sub-Claim E: Students
demonstrate fluency in
areas set forth in the
Standards for Content in
grades 3-6

8 Mathematical Practices

- Make sense of problems and persevere in solving them.
- Reason abstractly and quantitatively.
- 3. Construct viable arguments and critique the reasoning of others.
- 4. Model with mathematics.
- Use appropriate tools strategically.
- 6. Attend to precision.
- 7. Look for and make use of structure.
- Look for and express regularity in repeated reasoning.



Basic Priorities in Mathematics

Grade	Priorities in support of rich instruction and expectations of fluency and conceptual understanding
K-2	Addition and subtraction, measurement using whole number quantities
3–5	Multiplication and division of whole numbers and fractions
6	Ratios and proportional reasoning; early expressions and equations
7	Ratios and proportional reasoning; arithmetic of rational numbers
8	Linear algebra

Priorities in Math

Preschool	K	1	2	3	4	5	6	7	8		
Counting Cardina											
Operations and Algebraic Thinking						Propor	Ratio and Proportional Functions Relationships				
Numbers and Operations in Base Ten					en	Expressions and Equations Algebra			Algebra		
Fractions						The Number System and Quantity				Modeling	
Measurement and Data Probability and Statistics						istics					
Geometry											
		Stand	dards fo	r Mather	matical P	ractice					

High School Conceptual Categories

- The big ideas that connect mathematics across high school
 - Number and Quantity
 - Algebra
 - Functions
 - Modeling
 - Geometry
 - Probability and Statistics

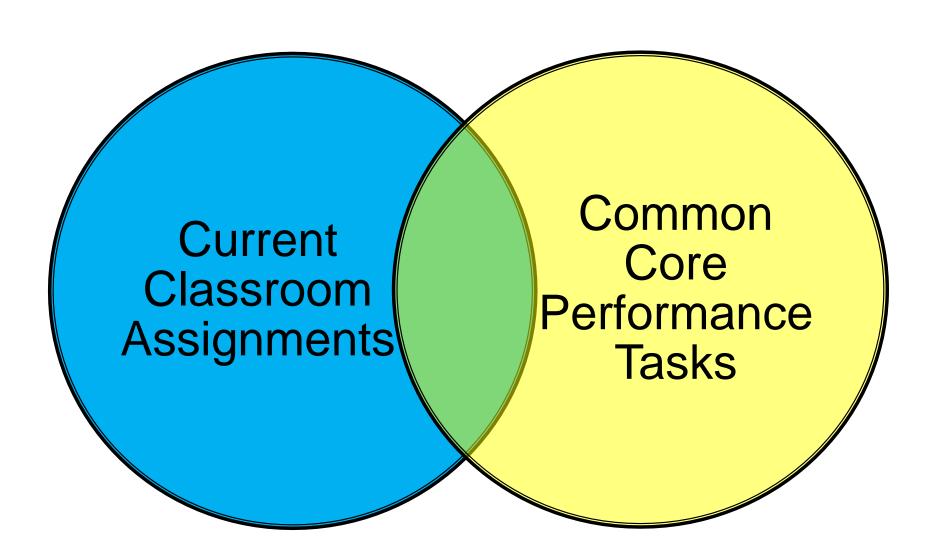


Implications for Instruction

- Emphasis on how you teach more so than what you teach
- Explore less topics in greater depth
 - Go deeper into topics
 - Derive algorithms and formulas not just extra time practicing



CCSS: Reality Check



Peeling (Unpacking) a Standard

- Determine what we should expect students to know, understand, or do:
 - –Nouns (content)
 - What do students need to understand or know?
 - Verbs (skills)
 - What do students need to be able to do?
 - How we should teach and assess a learning goal
 - ✓ Level of thinking required to achieve the standard
 - Determine the evidence needed to ensure students have achieved the learning goal

Peeling (Unpacking) a Standard

- Learning Objectives (How to teach)
 - Use nouns and verbs to create student-friendly objectives
 - Chunk learning
 - Use to write lesson plans
- Evidence of Learning (Assessment)
 - -How will you know if students know it?
 - Determine evidence that ensures achievement of learning goals
 - Use to determine formative/summative assessment(s)





Peeling (Unpacking) the Standards

STANDARD

What students must know.

Content = nouns

What students must do.

Skills = verbs

Statements are decided for you!





How are you going to assess it?

Evidence of learning

How are you going to teach it?

Lesson plan or objective

Questions you must decide and create!

Examine Key Words in Standards

Nouns

- Identify specific topics, concepts, content or products
- Indicate what students should know
- May have implications for product students must produce

Examine Key Words in Standards

Verbs

- Indicate what students should be able to do in each standard (both for CCR and at grade level)
- Have implications for assessment and instruction
- May indicate discrete skill or facet of understanding such as explanation, application, interpretation, etc.

Examine Key Words in Standards

Modifiers: Adjectives and Adverbs

- The qualifying adverbs or adjectives in the phrases will typically be the key criteria, and can be turned into rubrics.
- To what level or extent must the student perform?
- Criteria for performance

Peeling (Unpacking) the Standards

- Choose the standard(s) you want to unpack.
- Underline nouns (concepts) and circle verbs (skills/actions).
- Brainstorm ways that instruction at your grade level/content area could address the standard(s).
- Create student friendly learning objectives using the nouns and verbs.
- Create a variety of learning assessments.
- Think about differentiating instruction.

Skills (verbs)	Concepts (nouns or noun	
Vhat students need to be able to do	phrases)	Depth of Knowledge
	What students need to know	Thinking Levels (Blooms)
		Remembering
		Define/List/Recall/State/Repeat
		Understanding
		Classify/Describe/Discuss/Explain
		Locate/Paraphrase
		Applying
		Demonstrate/Choose/Illustrate/Solve
		Analyzing
		Analyze/Compare/Examine/Outline
		Evaluating
		Argue/Defend/Select/Judge
		Creating
		Assemble/Write/Create/Construct
		Design/Develop/Formulate

EVIDENCE OF LEARNING: How will you know if students know it? What evidence will let you know your students have achieved the learning goals? What will students say or do to demonstrate attainment of the standard?

Formative

Summative

DIFFERENTIATION OF LEARNING:		

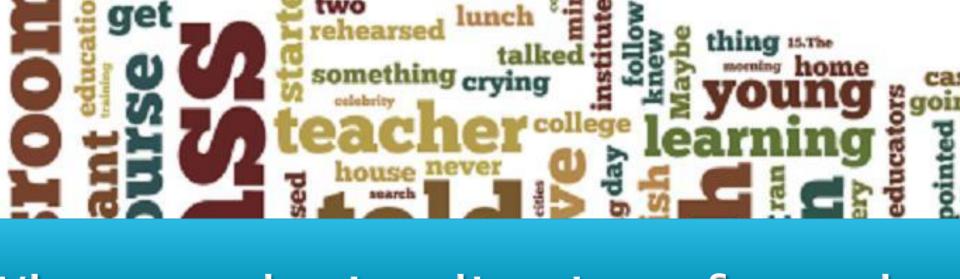
Think about...

•What are we already doing?

•What else can we try?

•What resources do I need?





Vhat are the Implications for today educators?

